

ABSTRACT OF THE DISCLOSURE

A method of simulating a behavior of a mechanism on the basis of description data using a hybrid model. The description data is parsed to extract a description of continuous system equations, a description of switching of the continuous system equations upon state transition, and a description of an additional process other than any process relating to the continuous system equations. A simulation of the behavior of the mechanism is executed, wherein an activated continuous system equations is solved by numerical integration. The additional process is executed in response to occurrence of an event which may integrally be managed with other events relating to the continuous system equations.